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(81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

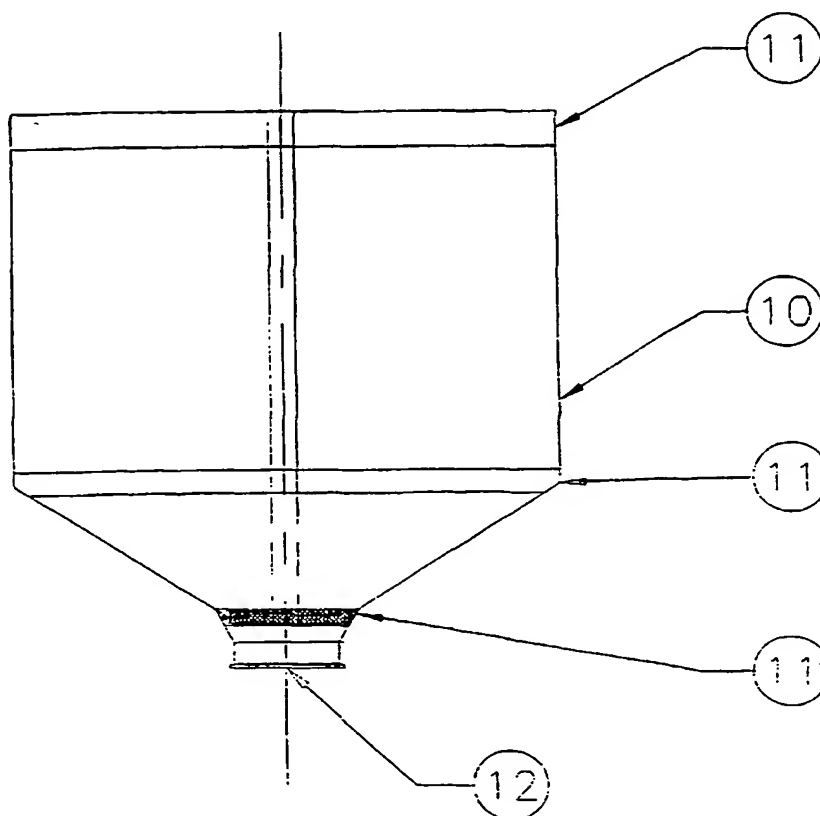
(84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: FLEXIBLE CONTAINMENT CHARGING DEVICE



(57) Abstract: The present invention is a material transfer device (1), utilizing flexible outer and inner liners (13,10). The present invention may additionally include a window (18) for viewing the load disposed inside the device. the transfer device may be formed from flexible material to integrally form a sealing valve.

WO 03/084831 A1

# PATENT COOPERATION TREATY

RESPONSE DUE

9-8-03

DEPOSITED DATE

7-10-03

BY

MAD

From the INTERNATIONAL SEARCHING AUTHORITY

PCT

30 SEP 2004

To:  
THOMAS P. PAVELKO  
STEVENS, DAVIS, MILLER & MOSHER, L.L.P.  
1615 L STREET, N.W.  
SUITE 850  
WASHINGTON, DC 20036

## NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT OR THE DECLARATION

(PCT Rule 44.1)

|   |   |
|---|---|
| Date of Mailing<br>(day/month/year)                   |   |
| Applicant's or agent's file reference<br>TPP 31446PCT | FOR FURTHER ACTION See paragraphs 1 and 4 below                             |
| International application No.<br>PCT/US03/08114       | International filing date<br>(day/month/year)<br>17 March 2003 (17.03.2003) |
| Applicant<br>ILC DOVER, INC.                          |   |

- ☒ The applicant is hereby notified that the international search report has been established and is *transmitted*.  
**Filing of amendments and statement under Article 19:**  
The applicant is entitled, if he so wishes, to amend the claims of the international application (see Rule 46):  
**When?** The time limit for filing such amendments is normally two months from the date of transmittal of the international search report.  
**Where?** Directly to the International Bureau of WIPO, 34, chemin des Colombettes  
1211 Geneva 20, Switzerland, Facsimile No.: (41-22) 740.14.35  
**For more detailed instructions, see the notes on the accompanying sheet.**
- ☐ The applicant is hereby notified that no international search report will be established and that the declaration under Article 17(2)(a) to that effect is transmitted herewith.
- ☐ **With regard to the protest against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that:**  
☐ the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices.  
☐ no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made.

### 4. Reminders

Shortly after 18 months from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau as provided in Rules 90 bis.1 and 90 bis.3, respectively, before the completion of the technical preparations for international publication.

Within 19 months from the priority date, but only in respect of some designated Offices, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase until 30 months from the priority date (in some Offices even later); otherwise the applicant must, within 20 months from the priority date, perform the prescribed acts for entry into the national phase before those designated Offices.

In respect of other designated Offices, the time limit of 30 months (or later) will apply even if no demand is filed within 19 months.

See the Annex to Form PCT/IB/301 and, for details about the applicable time limits, Office by Office, see the *PCT Applicant's Guide*, Volume II, National Chapters and the WIPO Internet site.

Name and mailing address of the ISA/US  
Mail Stop PCT, Attn: ISA/US  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
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Authorized officer

Jes F. Pascua

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*Sheila H. Veney*  
Paralegal Specialist  
Tech. Center 3700

# PATENT COOPERATION TREATY

RESP ISR  
RESPONSE DUE 8-8-03

DOCKETED DATE 7-10-03

BY NMB

From the INTERNATIONAL SEARCHING AUTHORITY

## PCT

### NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT OR THE DECLARATION

(PCT Rule 44.1)

|  |
|--|
| <b>To:</b><br>THOMAS P. PAVELKO<br>STEVENS, DAVIS, MILLER & MOSHER, L.L.P.<br>1615 L STREET, N.W.<br>SUITE 850<br>WASHINGTON, DC 20036 |
|--|

|                                     |                    |
|-------------------------------------|--------------------|
| Date of Mailing<br>(day/month/year) | <b>08 JUL 2003</b> |
|-------------------------------------|--------------------|

|   |   |
|---|---|
| Applicant's or agent's file reference<br>TPP 31446PCT | <b>FOR FURTHER ACTION</b> See paragraphs 1 and 4 below                      |
| International application No.<br>PCT/US03/08114       | International filing date<br>(day/month/year)<br>17 March 2003 (17.03.2003) |
| Applicant<br>ILC DOVER, INC.                          |   |

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For more detailed instructions, see the notes on the accompanying sheet.

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3. ☐ With regard to the protest against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that:

- ☐ the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices.
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|  |   |
|--|---|
| Name and mailing address of the ISA/US<br>Mail Stop PCT, Attn: ISA/US<br>Commissioner for Patents<br>P.O. Box 1450<br>Alexandria, Virginia 22313-1450<br>Facsimile No. (703)305-3230 | Authorized officer<br><br>Jes F. Pascua<br>Telephone No. 703-308-1078 |
|--|---|

**Paralegal Specialist  
Tech. Center 3700**

# PATENT COOPERATION TREATY

## PCT

### INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

|   |   |   |
|---|---|---|
| Applicant's or agent's file reference<br>TPP 31446PCT | <b>FOR FURTHER<br/>ACTION</b>   | see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below. |
| International application No.<br>PCT/US03/08114       | International filing date ( <i>day/month/year</i> )<br>17 March 2003 (17.03.2003) | (Earliest) Priority Date ( <i>day/month/year</i> )<br>01 April 2002 (01.04.2002)  |
| Applicant<br>ILC DOVER, INC.                          |   |   |

This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This international search report consists of a total of 3 sheets.



It is also accompanied by a copy of each prior art document cited in this report.

**1. Basis of the Report**

a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.



the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

b. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, the international search was carried out on the basis of the sequence listing:



contained in the international application in written form.



filed together with the international application in computer readable form.



furnished subsequently to this Authority in written form.



furnished subsequently to this Authority in computer readable form.



the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.



the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.

2. ☐ Certain claims were found unsearchable (See Box I).

3. ☐ Unity of invention is lacking (See Box II).

4. With regard to the title,



the text is approved as submitted by the applicant.



the text has been established by this Authority to read as follows:

5. With regard to the abstract,



the text is approved as submitted by the applicant.



the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. The figure of the drawings to be published with the abstract is Figure No. 1



as suggested by the applicant.



because the applicant failed to suggest a figure.



because this figure better characterizes the invention.



None of the figures

# INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/08114

## Box III TEXT OF THE ABSTRACT (Continuation of Item 5 of the first sheet)

The present invention is a material transfer device (1), utilizing flexible outer and inner liners (13, 10). The present invention may additionally include a window (18) for viewing the load disposed inside the device. The transfer device may be formed from flexible material to integrally form a sealing valve (12).

# INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/08114

## A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : B65D 33/36  
US CL : 383/67, 24, 106

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
U.S. : 383/67, 24, 106

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category * | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|------------|--|-----------------------|
| A          | US 3,961,655 A (NATTRASS et al.) 08 June 1976 (08.06.1976), entire document.       |                       |
| A          | US 4,817,824 A (LAFLEUR et al.) 04 April 1989 (04.04.1989), entire document.       |                       |
| A          | US 4,996,760 A (COLEMAN) 05 March 1991 (05.03.1991), entire document.              |                       |
| A          | US 5,018,877 A (KANTZ) 28 May 1991 (28.05.1991), entire document.                  |                       |
| A          | US 6,132,090 A (HASHIMOTO) 17 October 2000 (13.10.2000), entire document.          |                       |

☐ Further documents are listed in the continuation of Box C.

☐ See patent family annex.

\* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T"

later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X"

document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y"

document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&"

document member of the same patent family

Date of the actual completion of the international search

17 June 2003 (17.06.2003)

Date of mailing of the international search report

08 JUL 2003

Name and mailing address of the ISA/US

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